

OM of: US-09-092-297-17 to: EST: * out_format : pfs

Date: Jan 22, 2000 3:26 AM

About: Results were produced by the GenCore software, version 4.5, Copyright (c) 1991-1998 Compugen Ltd.

Command line parameters:

```
-MOFILE=frame+p2n.model -DEV=x1P
-0=<gn2.1/ruspro_spool/US09092297/runat_20012000_151103_15802/app_query.fasta.1
-DB=EST -QFORMAT=fastaP -SUFFIX=merjan202000.rst -GAPOP=4.500
-GAPEXT=0.050 -MINMATCH=1.00 -LOCOPCL=0.000 -LOOPEXT=0.000
-OGAPOP=4.500 -OGAPEXT=0.050 -YGAPOP=60.000 -YGAPEXT=60.000
-FGAPOP=6.000 -FGAPEXT=7.000 -YGAPOP=60.000 -YGAPEXT=60.000
-DELETION=0.000 -SPARE=1 -MATRIX=ol190
-TRANS=human40_cdl -LIST=45 -DOALIGN=200 -THR_SCORE=quality
-THR_MIN=1 -ALIGN=15 -M0DE=LOCAL -OUTFILE=pfs -NORM=ext -MINLEN=0
-MAXLEN=00000 -USER=US09092297 -NCPU=6 -ICPU=3 -NO_XLPPY -WAIT
-THREADS=1
```

S: information block:

Q: - US-09-092-297-17

Query length: 117

Database: EST: *

Database sequences: 4089388

Database length: 17396592

Search time (sec): 1255.04000

WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPOP=YGAPOR=60.000

WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT=YGAPEXT=60.000

score_list:

Sequence	Strd	Orig	Zscore	EScore	Len	! Documentation
gb_est15:AA455370	+	82.00	1565.10	1.9e-18	412	AA156370 aale02.rl Soares_NHM
gb_est129:AA1572169	+	24.00	452.16	1.8e-16	275	AA152169 te3re06.rl Soares_NHM
gb_est11:AA195677	-	16.00	294.23	1.1e-07	475	AA195677 zr32h04.rl Soares_NHM
gb_est14:EF20955	-	9.00	160.76	3.11	403	F20955 RSPD0544 HM3 Homo sapi
gb_gss3:AO034057	+	8.00	139.49	47.58	531	AO034057 1 (3)03576 Drosophila
gb_gss8:AO581989	+	8.00	137.81	59.00	667	AO581989 RPL-11-60D1-IV RPL1-
gb_est1:MB0022	+	7.00	120.57	538.22	508	M89022 CBL14C2 Chris Martin sor
gb_est1:TO3295	+	7.00	121.73	463.95	334	T03295 RPL8 Beta1 brain, Strat
gb_est1:TS8570	-	7.00	123.64	363.42	335	TS8570 EST104073 S. cerevisiae
gb_est2:R09194	+	7.00	127.25	208.67	205	R09194 Y722g01.rl Soares fetal
gb_est2:R15249	+	7.00	121.20	508.19	478	R15249 Y789c04.rl Soares infant
gb_est2:T63381	-	7.00	123.72	359.32	331	T63381 Y741f05.rl Stratagene 11
gb_est3:RJ2824	+	7.00	123.61	364.22	336	RJ2824 Y714e08.rl Soares placen
gb_est3:RJ2824	+	7.00	125.44	465	474	RJ2824 Y763c02.rl Soares placen
gb_est3:RJ2824	+	7.00	121.08	504.18	474	RJ2824 Y769c11.rl Soares breast
gb_est3:RJ2824	+	7.00	124.35	331.61	304	RJ2824 Y791a11.rl Soares breast
gb_est3:RJ2824	+	7.00	122.06	444.76	415	RJ2824 Y798g10.rl Soares placen
gb_est3:RJ2824	+	7.00	121.01	509.19	479	RJ2824 Y809g10.rl Soares placen
gb_est4:HR0322	+	7.00	124.75	315.12	288	H20322 Y160f10.rl Soares breast
gb_est4:HR0322	+	7.00	123.66	362.39	334	T76317 Y1105 Lambda-PR12 Arbind
gb_est5:HG9509	+	7.00	121.89	454.87	425	H65509 YU71f10.rl Weizmann Olfa
gb_est5:HG74591	+	7.00	124.47	326.46	299	H74591 19 Deletion-treated Bras
gb_est5:N37337	+	7.00	122.19	437.68	408	N37337 Y18564 Lambda-PR12 Arbind
gb_est5:NA42067	+	7.00	123.02	393.02	364	NA42067 YW94907.rl Soares placen
gb_est5:NT0110	+	7.00	122.24	434.65	495	N70110 Y2a53h09.rl Soares fetal
gb_est5:NT0110	+	7.00	125.22	485.32	501	W01207 Y2a59b07.rl Soares fetal
gb_est5:NT0110	+	7.00	121.50	478.05	448	W17541 Ymb62g09.rl Soares mouse
gb_est8:AA045641	-	7.00	123.66	362.39	334	AA045641 Y2a53h09.rl Soares placen
gb_est8:W41479	-	7.00	119.36	476.04	446	W1479 Ymb38b08.rl Soares mouse
gb_est9:AA105850	+	7.00	122.96	628.73	599	AA105850 mm02f10.rl Stratagene
gb_est9:AA11987	+	7.00	122.32	396.07	367	AA11987 Ymp79g09.rl Soares 2NBm
gb_est9:C19615	+	7.00	125.28	294.44	459	C19615 C19615 Rice paniculat
gb_est9:C22082	+	7.00	119.44	622.79	593	C22082 C22082 Miyagawa-wase sat
gb_est10:AA141336	-	7.00	123.38	485.09	455	AA141336 CK01837.5 Prime CK Dros
gb_est10:AA162238	-	7.00	121.15	500.16	470	AA162238 mn4a20.rl Beddington
gb_est10:AA163025	+	7.00	119.22	640.60	611	AA163025 mr28b09.rl Soares mouse
gb_est10:AA186122	+	7.00	122.22	492.81	522	AA186122 mu56g12.rl Soares mouse
gb_est11:AA200013	+	7.00	121.16	499.16	469	AA200013 mu02a02.rl Soares mouse

seq_name: gb_est15:AA455370	LOCUS	412 bp mRNA	DEFINITION	aa1e02.rl Soares_NHM_PU_S1 Homo sapiens	EST	06-JUN-1997
	gb_est11:AA1572169	475	aa1e02.rl Soares_NHM_PU_S1 Homo sapiens			
	gb_gss3:AO034057	403				
	gb_gss8:AO581989	667				
	gb_est1:TO3295	334				
	gb_est1:TS8570	335				
	gb_est2:R09194	205				
	gb_est2:R15249	478				
	gb_est2:T63381	331				
	gb_est3:RJ2824	474				
	gb_est3:RJ2824	474				
	gb_est3:RJ2824	474				
	gb_est3:RJ2824	474				
	gb_est3:RJ2824	474				
	gb_est4:HR0322	288				
	gb_est5:HG9509	425				
	gb_est5:HG74591	299				
	gb_est5:N37337	408				
	gb_est5:NA42067	364				
	gb_est5:NT0110	501				
	gb_est5:NT0110	501				
	gb_est5:NT0110	501				
	gb_est8:AA045641	448				
	gb_est8:W41479	446				
	gb_est9:AA105850	446				
	gb_est9:AA11987	459				
	gb_est9:C19615	459				
	gb_est9:C22082	468				
	gb_est10:AA141336	593				
	gb_est10:AA162238	593				
	gb_est10:AA163025	611				
	gb_est10:AA186122	522				
	gb_est11:AA200013	469				

(102.4) **seq_documentation_block:**
LOCUS AA156370 412 bp mRNA
DEFINITION aa1e02.rl Soares_NHM_PU_S1 Homo sapiens
REFERENCE (1 bases 1 to 412)
AUTHORS Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Moore,B., Schallenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wyllie,T., Waterston,R., Wilson,R.
ACCESSION AA156370
NID 92178946
VERSION AA46370.1
JOURNAL EST
COMMENT Unpublished (1997)
ORGANISM Homo sapiens
TITLE Wilson-McKee EST Project 1997
COMMENT On Sep 1, 1995 this sequence version replaced.

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LBNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Seq Primer: 28m13 rev2 ER from Amersham
High quality sequence stop: 398.
FEATURES
source
ORGANISM "Homo sapiens"
db_xref="GDB:604152"
db_xref="taxon:9606"
map="21"
/clone="Y18564"
/clone_line="Soares_NHM_PU_S1"
/tissue_type="Pooled human melanocyte, fetal heart, and pregnant uterus"
/lab_host="DHIOB"
/note="Organ: mixed (see below); Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NBm, pregnant uterus NbHPU, and fetal heart NbHH19W) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of T.M.A.G.E. clones 26032-265223, 34088-345479, and 484488-489479."
alignment_scores:
Quality: 82.00
Ratio: 1.00.000
Percent Similarity: 100.000
Percent Identity: 100.000
alignment_block: alignment_block:
us-09-092-297-17 x AA456370

	BASE COUNT	58 a	77 c	56 g	84 t
ORIGIN					
alignment_scores:					
Quality:	24.00				
Ratio:	1.000				
Length:	24				
Gaps:	0				
Percent Similarity:	100.000				
Percent Identity:	100.000				
alignment_block:					
US-09-092-297-17 x A1572169					
Align seq 1/1 to: AA456370 from: 1 to: 412					
seq_name: gb_est29:A1572169					
seq_documentation_block:					
LOCUS	A1572169	275 bp	mRNA		
DEFINITION	te31e06.x1 Soares_NhHMPU_S1	Homo sapiens	EST		
ACCESSION	A1572169				
NID	9453543				
VERSION	A1572169.1				
KEYWORDS	EST				
SOURCE					
ORGANISM	Homo sapiens				
BIOCARTA:	Metazoa; Chordata; Craniata; Vertebrata; Mammalia;				
REFERENCE	Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	1 (bases 1 to 275)				
TITLE	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.				
JOURNAL	National Cancer Institute, Cancer Anatomy Project (CGAP), Tumor Gene Index.				
COMMENT	Unpublished (1997) On Jun 2, 1997 this sequence version replaced gi:2152659.				
Contact:	Robert Strausberg, Ph.D.				
Tel:	(301) 496-1550				
Email:	Robert.Strausberg@nih.gov				
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.					
Insert Length:	585	Std Error:	0.00		
Seq Primer:	-40p from Gibco				
High quality sequence stop:	272.				
FEATURES					
source					
1. 275					
/organism="Homo sapiens"					
/ab_xref="taxon:9606"					
/ab_xref="IMAG:208898"					
/clone_id="Soares_NhHMPU_S1"					
/tissue_type="Pooled human melanocyte, fetal heart, and pregnant uterus"					
/lab_host="DH10B"					
/clone="Organ: mixed (see below); Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NBHM, pregnant uterus NBHU, and fetal heart NBH19W) were mixed, and ss circles were made in vitro. Following HRP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of 1.M.A.G.E. clones 260232-265223, 340488-345479, and 404488-489479."					
FEATURES					
source					
1. 475					
/organism="Homo sapiens"					
/ab_xref="GDB:5427175"					
/ab_xref="taxon:9606"					
/clone="IMAGE:66513"					
/clone_id="Soares_NhHMPU_S1"					
/tissue_type="pooled human melanocyte, fetal heart, and pregnant uterus"					
/lab_host="DH10B"					
/clone="Organ: mixed (see below); Vector: pT7T3D-Pac (Pharmacia) with a modified Polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NBHM, pregnant uterus					

NbHPU, and fetal heart NbHH19W) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3' libraries. The pools consisted of T.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479, 2 others

BASE COUNT
ORIGIN
109 a 122 c 134 g 108 t 2 others

alignment_scores:
Quality: 16.00 Length: 16
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-092-297-17 x AA195677/rev

Align seg 1/1 to reverse of: AA195677 from: 1 to: 475

102 CysAspSerAlaArgThrSerAspAspArgLeuCysArgSerValSer 117
||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
460 TGGGACTTAGCCCCGAGCCCTCGGATGAGCCTTGTCAGTCAGC 413

seq_name: gb_est14:F20995

seq.documentation_block:
LOCUS F20995 403 bp mRNA EST 17-MAY-1999
DEFINITION HSPD05444 HM3 Homo sapiens cDNA clone 034-X4-13, mRNA sequence.

ACCESSION F20995
NID 92060171
VERSION F20995.1
KEYWORD EST
SOURCE human.
ORGANISM Homo sapiens

REFERENCE 1
AUTHORS Butcheria; Primates; Catarrhini; Hominidae; Homo.
TITLE (bases 1 to 403)
Pandolfi,D., Toppi,S., Trevisan,S., Scarso,S. and Valle,G.
Identification of 4310 expressed sequence tags from a
sequencing and filter hybridization

JOURNAL Genome Res. 6 (1), 35-42 (1996)
MEDLINE 96226048
COMMENT On Dec 30, 1996 this sequence version replaced gi:1529536.

Contact: Valle G.
CRIBI Biotechnology Centre
University of Padua
Via Trieste 75, 35121 Padua, Italy
ABI Chromatograms and other information are available on [www at http://grup.bi.unipd.it](http://grup.bi.unipd.it).

FEATURES source
1. .403
/organism="Homo sapiens"
/db_xref="taxon:606"
/clone="034-X4-13"
/clone_1lb="HM3"
/sex="female"
/tissue_type="pectoral muscle (after mastectomy)"
/note="Vector: pcDNA1 (Invitrogen); Site:1: BstXI;
Site:2: NotI; the library was constructed by G.
Lanfranchi. This library is not subtracted nor normalized.
The first strand cDNA was primed with a biotinylated
oligo-dT-NotI primer
(5'-biotin-AACCGGCTCGAGGGCGGTTTTTTTTTT-3'). The
ds cDNA was sonicated and size selected in the range
350-550 bp. The 3' specific fragments were selected by
streptavidin coated magnetic beads, ligated to
non-palindromic BstXI adaptors. NotI digested and
directionally cloned into BstXI-NotI cut pcDNA1 vector."

BASE COUNT
ORIGIN
105 a 97 c 98 g 97 t 6 others

alignment_scores:
Quality: 9.00 Length: 9
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-092-297-17 x F20995/rev

Align seg 1/1 to reverse of: F20995 from: 1 to: 403

66 AlavalAlvalProAlaAlaArgThrGln 74
||||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
297 GCGCTTGCCCTTCGCAAGAACACAA 271

seq_name: gb_gss3:AO034057

seq.documentation_block:
LOCUS AO034057 531 bp DNA
DEFINITION (1)03576 Drosophila melanogaster P lethal line Drosophila
melanogaster genomic sequence recovered from Both 5' and 3' ends of
element, genomic survey sequence.

ACCESSION AO034057
NID 93293677
VERSION AO034057.1
KEYWORDS GSS.
SOURCE fruit fly.
ORGANISM Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Drosophila; Diptera; Brachycera; Muscomorpha; Ephydriodea;
Pterygota; Drosophila.
REFERENCE 1
AUTHORS Spadring,A.C., Stern,D., Beaton,A., Rehm,E.J., Laverty,T.,
Mozden,N., Misra,S. and Rubin,G.M.
TITLE The BOP gene disruption Project: Single P element insertions
mutating 30% of Drosophila autosomal genes
JOURNAL Unpublished (1998)
COMMENT

Contact: Gerald Rubin
Berkeley Drosophila Genome Project
University of California, Berkeley
USA Building, Berkeley, CA 94720-3200, USA
Fax: 5106439947
Email: gerry@fruitfly.berkeley.edu

Sequence recovery method was inverse PCR.

Sequence orientation is forward strand relative to 5' end of P
element.
The P element insertion position is base 105 in the 531 bases. This
insertion position refers to the first base of the 8 base target
recognition sequence.

This sequence is also known as STS Dm0281

FEATURES source
1. .531
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone_1lb="Drosophila melanogaster P lethal line"
/note="Inverse PCR was performed on Drosophila
melanogaster strains each of which contains a single P
transposable element insert that is thought to cause
either lethality or sterility. The resultant fragment for
each strain was directly sequenced to determine the
genomic sequence at the site of insertion. Details of the
protocols used can be found at
http://fruitfly.berkeley.edu/p-disrupt/inverse_pcr.html"

BASE COUNT 123 a 117 c 146 g 145 t
 ORIGIN

alignment_scores:
 Quality: 8.00 Length: 8
 Ratio: 1.000 Gaps: 0
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
 US-09-092-297-17 x A0581989 ..

Align seq 1/1 to: A0034057 from: 1 to: 531

29 SeHnisGyalarovalalaPro 36
 52 TCCATGTCACCTGTAGACCG 75

seq_name: gb_gss8:A0581989

seq_documentation_block:
 Documentation_block:
 A0581989 667 bp DNA
 RPCI-11-460D1.TV RCR-11 Homo sapiens genomic clone RPCI-11-460D1,
 genomic survey sequence.

ACCESSION A0581989
 NID 95009099
 VERSION A0581989.1 GI:5009099
 SOURCE
 HOMO sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
 Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 667)
 AUTHORS Zhao,S., Adams,M.D., Nierman,W., Malek,J., de Jong,P. and
 Venter,J.C.

TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready
 MAP Building
 Unpublished (1997)

COMMENT Contact: Shaying Zhao, William Nierman, Mark Adams
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: hb@tigr.org

Clones are derived from the human BAC library RPCI-11. For BAC
 library availability, please contact Pieter de Jong
 (pieter@dejong.med.buffalo.edu). Clones may be purchased from
 BAC/PAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from
 Research Genet CS (info@esgen.com). BAC end search page:
http://www.tigr.org/tdb/hungen/bac_end_search/bac_end_search.html.
 Seq primer: T7

Class: BAC ends.

FEATURES source
 1. .667
 Location/Qualifiers
 1. 508
 /FEATURE source
 /ORGANISM "Caenorhabditis elegans"
 /STRAIN "Bristol N2"
 /DB_XREF "Baxton:6239"
 /CLONE "Cml4c2"
 /CLONE_LIB "Chris Martin sorted cDNA library"
 /NOTE "Vector: Lambdophage SHLX2; Mixed stage
 hermaphrodite cDNA library. Partially normalized by
 successively picking groups of clones that didn't
 hybridize to previously picked clones. Vector: Lambdophage
 SHLX2 (Lipshitz, D.H. et al., Gene 88:25-36 (1990)) Host:
 MC1061"
 /DB_XREF "GB:B1676328"
 /CLONE "RPCI-11-460D1"
 /CLONE_LIB "RPCI-11"
 /SEX "Male"
 /CELL_TYPE "Lymphocytes"
 /NOTE "Vector: PBACE2; Site_1: EcoRI; Site_2: EcoRI;
 RECALL Human Male BAC Library"
 ORIGIN

BASE COUNT 163 a 113 c 136 g 255 t
 ORIGIN

alignment_scores:
 Quality: 8.00 Length: 8
 Ratio: 1.000 Gaps: 0
 Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
 US-09-092-297-17 x M89022 ..

Align seq 1/1 to: M89022 from: 1 to: 508

110 AspArgLeuCysArgSerVal 116

